

WHAT IS CLAIMED IS:

1. A motorcycle frame comprising:

a head pipe;

a front fork for supporting a front wheel through a shaft, wherein said front fork is rotatable with respect to and supported by said head pipe;

a pair of right and left pipe members each having a substantially prismatic, cross-sectional shape and being connected contiguously to said head pipe, wherein each of said right and left pipe members includes a front end portion and each pipe member is bent in an outwardly convex shape with respect to a longitudinal centerline of said motorcycle frame at a longitudinally intermediate position of each pipe member, wherein each pipe member further includes

an inner wall which is substantially flat throughout an overall length of each pipe member and with respect to the vertical direction of each pipe member, and

an outer wall which extends substantially parallel with the inner wall, wherein the pipe members are each bent in a plane orthogonal to the inner wall and the pipe members are inclined toward each other as the pipe members extend upwardly toward and are connected contiguously to the head pipe.

2. The motorcycle frame according to claim 1, further comprising an engine mounting space being disposed between lower portions of said right and left pipe members.

3. The motorcycle frame according to claim 1, further comprising a pair of engine hangers secured to the head pipe and to front end portions of both right and left pipe members.

4. The motorcycle frame according to claim 3, further comprising connecting pipes for connecting between lower portions of both engine hangers and support plates secured to rear portions of the right and left pipe members.

- 30 -

5. The motorcycle frame according to claim 4, further comprising:
a pair of right and left pivot plates extending downward from the rear portions of the right and left pipe members; and
a first cross pipe being disposed extending across a span between the front end portions of the right and left pipe members.

6. The motorcycle frame according to claim 5, further comprising:
a second cross pipe being disposed extending across a span between upper portions of the pivot plates; and
a third cross pipe being disposed extending across a span between lower portions of both pivot plates.

7. The motorcycle frame according to claim 5, further comprising a pair of seat rails extending rearwardly and upwardly with respect to and being connected with the rear portions of both right and left pipe members.

8. The motorcycle frame according to claim 7, wherein the head pipe includes
a cylindrical portion for rotatably supporting the front fork, and
a pair of right and left gussets extending rearward and downward from the cylindrical portion of the head pipe.

9. The motorcycle frame according to claim 1, wherein the head pipe includes
a cylindrical portion for rotatably supporting the front fork, and
a pair of right and left gussets extending rearward and downward from the cylindrical portion of the head pipe.

10. The motorcycle frame according to claim 1, further comprising:
a pair of right and left pivot plates extending downward from the rear portions of the right and left pipe members; and

- 31 -

a first cross pipe being disposed extending across a span between the front end portions of the right and left pipe members.

11. The motorcycle frame according to claim 10, further comprising:

a second cross pipe being disposed extending across a span between upper portions of the pivot plates; and

a third cross pipe being disposed extending across a span between lower portions of both pivot plates.

12. The motorcycle frame according to claim 8, further comprising a right and a left main frame, wherein each of said right and left frames includes a respective gusset, one of said pipe members welded at the front end portion thereof to the gussets, and pipe portions integral with the pivot plates and welded to rear ends of the pipe members.

13. The motorcycle frame according to claim 1, wherein each of said pipe members includes a respective rib that vertically partitions an interior of the pipe member, said rib being provided between vertically intermediate inner wall portions of each pipe member.

14. The motorcycle frame according to claim 12, wherein each of said pipe members includes a respective rib that vertically partitions an interior of the pipe member, said rib being provided between vertically intermediate inner wall portions of each pipe member.

15. The motorcycle frame according to claim 14, wherein a lower portion of each pipe member includes a cut-out portion, and the respective engine hanger is welded to the respective pipe member at said cut-out portion.

16. A motorcycle comprising:

a front wheel and a rear wheel;

- 32 -

a head pipe;

a front fork for supporting the front wheel through a shaft, wherein said front fork is rotatable with respect to and supported by said head pipe;

a pair of right and left pipe members each having a substantially prismatic, cross-sectional shape and being connected contiguously to said head pipe, wherein each of said right and left pipe members includes a front end portion and each pipe member is bent in an outwardly convex shape with respect to a longitudinal centerline of said motorcycle frame at a longitudinally intermediate position of each pipe member, wherein each pipe member further includes

an inner wall which is substantially flat throughout an overall length of each pipe member and with respect to the vertical direction of each pipe member, and

an outer wall which extends substantially parallel with the inner wall, wherein the pipe members are each bent in a plane orthogonal to the inner wall and the pipe members are inclined toward each other as the pipe members extend upwardly toward and are connected contiguously to the head pipe;

an engine mounting space being disposed between lower portions of said right and left pipe members; and

an engine mounted within the engine mounting space.

17. The motorcycle according to claim 16, further comprising:

a pair of engine hangers secured to the head pipe and to front end portions of both right and left pipe members; and

connecting pipes for connecting between lower portions of both engine hangers and support plates secured to rear portions of the right and left pipe members.

18. The motorcycle according to claim 17, further comprising:

a pair of right and left pivot plates extending downward from the rear portions of the right and left pipe members; and

- 33 -

a first cross pipe being disposed extending across a span between the front end portions of the right and left pipe members.

19. The motorcycle according to claim 18, further comprising:

a second cross pipe being disposed extending across a span between upper portions of the pivot plates; and

a third cross pipe being disposed extending across a span between lower portions of both pivot plates.

20. The motorcycle according to claim 19, further comprising:

a pair of seat rails extending rearwardly and upwardly with respect to and being connected with the rear portions of both right and left pipe members; and

wherein the head pipe includes a cylindrical portion for rotatably supporting the front fork, and a pair of right and left gussets extending rearward and downward from the cylindrical portion of the head pipe.